

REMARKS

By the present Amendment, claims 1-9 are amended in accordance with customary U.S. patent practice and to omit the multiple dependency of the claims. A Version With Markings Showing Changes Made is attached. Claims 10-20 are added. Support for claims 10, 11, and 12 and 13 may be found in original claims 3, 4 and 5, respectively. Support for claims 14 and 15, 16 and 17, and 18-20 may be found in original claims 6-8, respectively. It is believed that these changes do not involve any introduction of new matter, whereby entry is believed to be in order and is respectfully requested.

Respectfully submitted,



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VERSION WITH MARKINGS SHOWING CHANGES MADE

In the Claims:

Claims 1-9 are amended as follows:

1. (Amended) Method for increasing the yield of recombinant [proteins] proteins in a microbial fermentation [processes, characterized by the fact that] process, wherein the concentration of [the] a carbon / energy source in the culture is oscillatingly reduced or increased in short cycles.

2. (Amended) Method according to Claim 1, [characterized by the fact that] wherein the oscillations are generated by changing [the] a dosage rate of [the] a feed solution containing the carbon/energy source.

3. (Amended) Method according to [Claims 1 and 2, characterized by the fact that] claim 1, wherein the maximum duration of one cycle is 4 minutes, and the duration of a single phase of the cycle is a maximum of two minutes.

4. (Amended) Method according to [any of Claims 1 through 3, characterized by the fact that] claim 1, wherein the duration of one cycle is one minute, and the duration of a phase of the cycle is a maximum of 75% of the total cycle time.

5. (Amended) Method according to [any of Claims 1 through 3, characterized by the fact that] claim 1, wherein the carbon/energy source is added to the culture in such a manner as to cyclically vary the rate of addition of the substrate solution only during certain segments of the process.

6. (Amended) Method according to [any of Claims 1 through 5, characterized by the fact that] claim 1, wherein the dosage rate is controlled by cyclical activation and deactivation of the addition of the feed solution.

7. (Amended) Method [pursuant to any of Claims 1 through 5, characterized by the fact that] according to claim 1, wherein glucose, glycerol, lactose, galactose, methanol, acetate, molasses, or starch is used as the carbon/energy substrate.

8. (Amended) Method [pursuant to any of Claims 1 through 7, characterized by the fact that,] according to claim 1, wherein, depending on the promoter used, IPTG, [or] indolyl acrylic acid (IAA), [or] lactose, arabinose, galactose, or methanol, [(]if not already used as the energy source, is [) are] added to the culture to induce formation of the recombinant product.

9. (Amended) Method [pursuant to any of Claims 1 through 9, characterized by the fact that] according to claim 1, wherein a temperature shift occurs at the time of the induction of the formation of the recombinant product.